Attorney Docket Number

PTO/SB/08A (08-03)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO

Complete if Known **Application Number** 10/672,442 Filing Date September 26, 2003 First Named Inventor Aladahalli, et al. Art Unit 2121 **Examiner Name** Not Yet Assigned

DB001050-001

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)

of I1

Sheet 1

U. S. PATENT DOCUMENTS Examiner **Document Number** Name of Patentee or Pages, Columns, Lines, Where **Publication Date** Initials* MM-DD-YYYY **Applicant of Cited Document** Relevant Passages or Relevant Number-Kind Code^{2 (1 trous)} Figures Appear ^{US-} 6,185,724 B1 JH 02-06-2001 Ochotta US: US-US-US-US-US-US. US-US-US-ÚSus-US: US-US-USus. US-

	FOREIGN PATENT DOCUMENTS								
	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear				
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First Named Inventor	Aladahalli, et al.	_	
Art Unit	2121		
Examiner Name	Not Yet Assigned		
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Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (F Incom)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JH		^{US-} 5,953,517	09-14-1999	Yin et al.	
JH		^{US-} 5,825,660	10-20-1998	Cagan et al.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2

Application Number	10/672,442	
Filing Date	26 September 2003	
First Named Inventor	Aladahalli, et al.	
Art Unit	2121	
Examiner Name	Not Yet Assigned	
Attorney Docket Number	DB001050-001	

	,	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		CHANDANKUMAR ALADAHALLI, ET AL., A Sensitivity-Based Pattern Search Algorithm For 3D Component Layout, Proceedings of the 2002 Design Engineering Technical Conference,	
JH		DETC-2002/DAC-34123, September 29 - October 2, 2002, pages 1-10, ASME, Montreal, Canada	
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Examiner	/Joseph Hirl/	(06/12/2006)	•	Date	
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JH		2001 Graduate Student Technical Conference Masters Presentations Schedule, CMU Mechanical Engineering Web Site, 4/20/2001, pg. 1-8			
		J. CAGAN, et al., A survey of computational approaches to three-dimensional layout problems, July 2002, pgs. 597-611, vol. 34, no. 8, Elsevier			
	/	M. UPTON, et al., Integrated Placement for Mixed Macro Cell and Standard Cell Designs, 1990, IEEE, pg. 32-35			
_		J. CAGAN, et al., A simulated annealing-based algorithm using hierarchical models for general three-dimensional component layout, Sept. 1998, pg. 781-790, vol. 30			
		C. ALADAHALLI, et al., A Sensitivity-Based Pattern Search Algorithm for 3D Component Layout, 2002, ASME, pg.839-848, vol. 2			
		S. KATKOORI, et al., RT-level Interconnect Optimization in DSM Regime IEEE, April 27, 2000, pgs. 143-148			
		V. TORCZON, et al., From Evolutionary Operation to Parallel Direct Search: Pattern Search Algorithms for Numerical Optimization, Proceedings of the 29th Symposium on the			
\bigvee		Interface, Computer Science and Statistics, May 14, 1997, pgs. 396-401, vol. 29, no. 1			
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Signature		Considered	

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